

CONTROL DATA® 667 SERIES MAGNETIC TAPE TRANSPORTS

CONTROL DATA
CORPORATION



The Control Data 667 Series Magnetic Tape Transports are 7-track members of a new CDC® tape transport family. These units have been specially developed to provide high levels of performance, reliability and maintainability, based on the latest technology.

Tape motion is accomplished by a single capstan which is controlled by a digital tachometer. The slightest speed variation in the capstan drive is sensed by the tachometer and corrective signals are generated to ensure precise data recording. Vacuum columns act as buffers between the synchronous tape speed, as produced by the capstan, and asynchronous motion, as produced by the reel-drive servo system. Reel-drive servos are controlled by photoelectric cells in the vacuum columns. Air bearings and ceramic guides are used at critical points throughout the tape path and allow only the read/write head and tape cleaners to come into contact with the tape. Hence, maximum tape life is ensured with minimum contamination. Automatic reel-hub latching, cartridge load, automatic threading, plus a power-operated window are added features designed to minimize tape handling and decrease loading operation time.

The 667 provides 7-track industry compatibility, read or write, with computer-selected densities of 556 or 800 CPI in NRZI recording mode. It also has a read-only capability of 7-track tapes recorded at 200 CPI. Tape speeds include 100, 150 and 200 inches per second, allowing transfer rates up to 160,000 characters per second. Operational modes include forward and reverse read. The 667 Tape Transport connects to the CDC 7021/7622 Magnetic Tape Controller.

SPECIFICATIONS

Tape

Width: ½ inch
Length: 2400 feet
Reels: 10½ inch, ANSI-compatible hub with file-protect ring
Hubs: One automatic-supply reel latch
One fixed automatic-loading reel

Recording Formats

Seven-track Recording: NRZI; non-return-to-zero, change-on-ones (Industry Standard)

	Model Numbers		
	667-2	667-3	667-4
Speed (Inches per Sec.)	100	150	200
Transfer Rates (Char. per Sec.)			
200 CPI NRZI (Read only)	20,000	30,000	40,000
556 CPI NRZI	55,600	83,400	111,200
800 CPI NRZI	80,000	120,000	160,000
Rewind Time (2400 feet/reel)	60 sec.	50 sec.	45 sec.
Start Time (milliseconds)	1.8	1.8	1.8
Stop Time (milliseconds)	3.0	3.0	2.0

Physical/Electrical Characteristics

Height: 63 inches
Width: 30.5 inches
Depth: 30 inches
Weight: 900 pounds

Power Requirements:

60-Hz, 208V, 3-phase, 20-amp circuit
50-Hz, 380V, 3-phase, 30-amp circuit

Specifications subject to change without notice.